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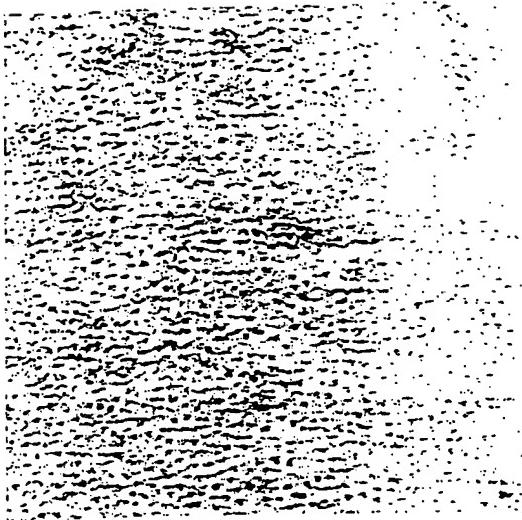


FIG. 1A

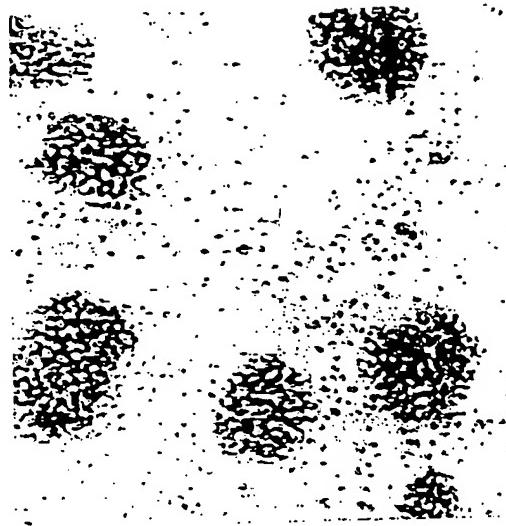


FIG. 1B

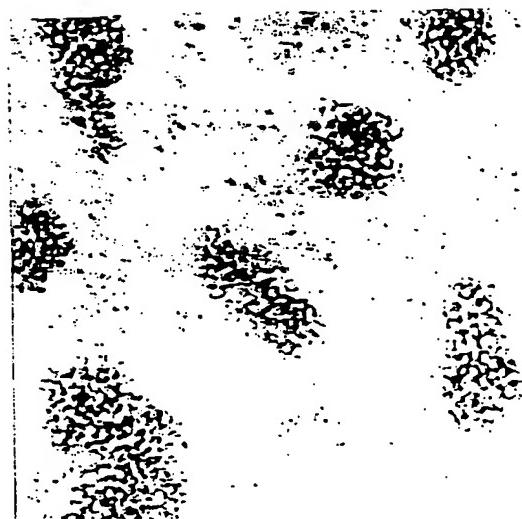


FIG. 1C

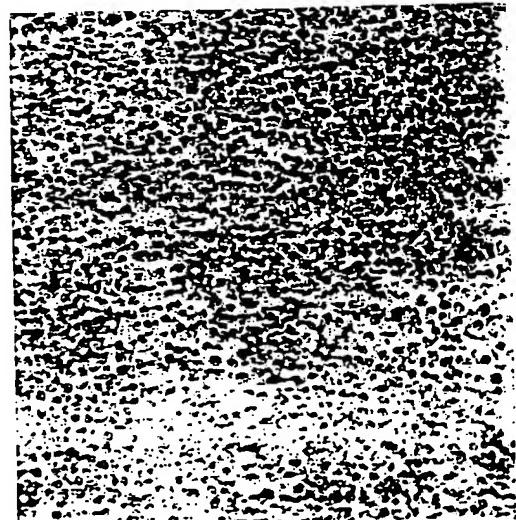
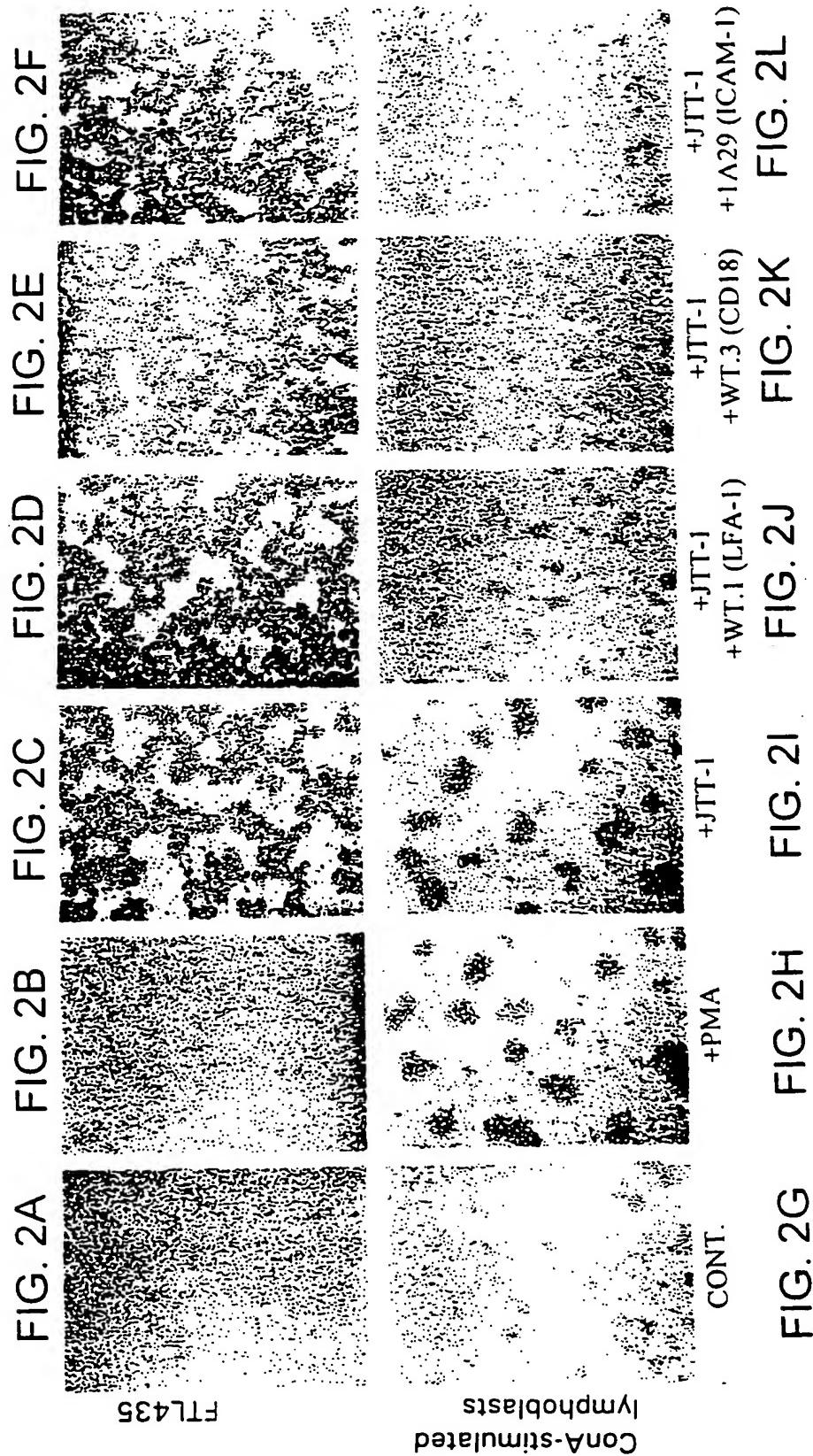


FIG. 1D



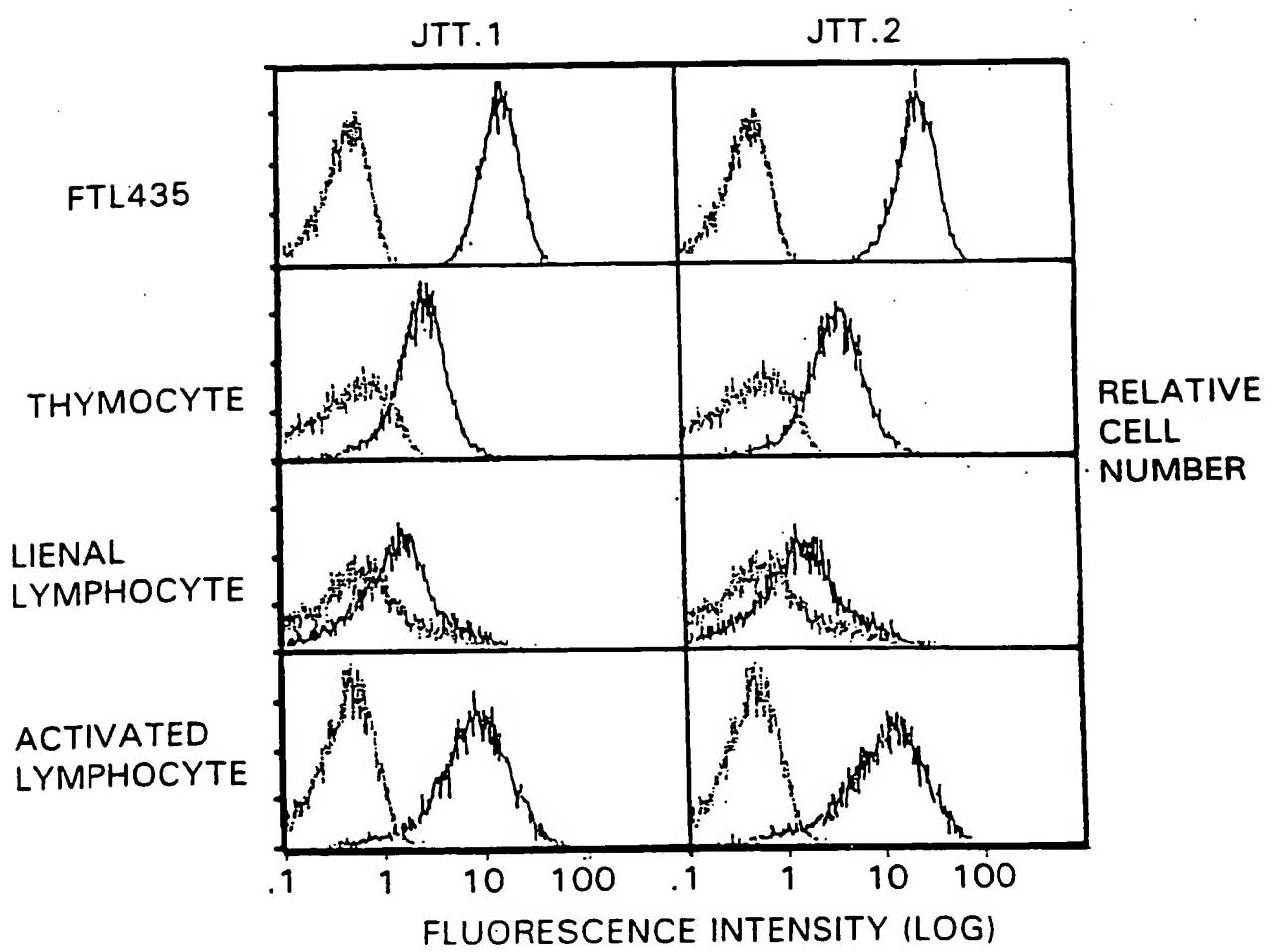
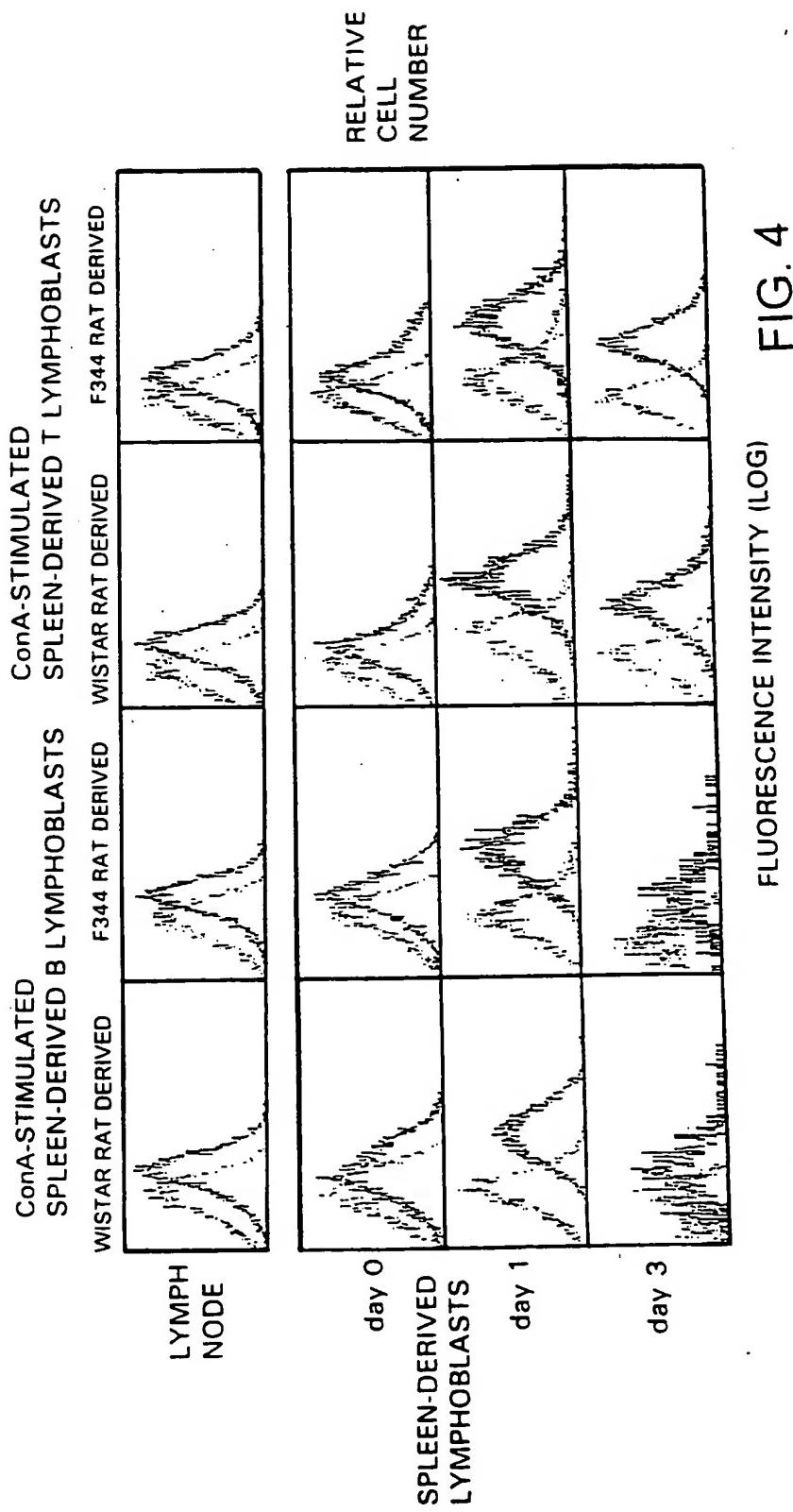


FIG. 3



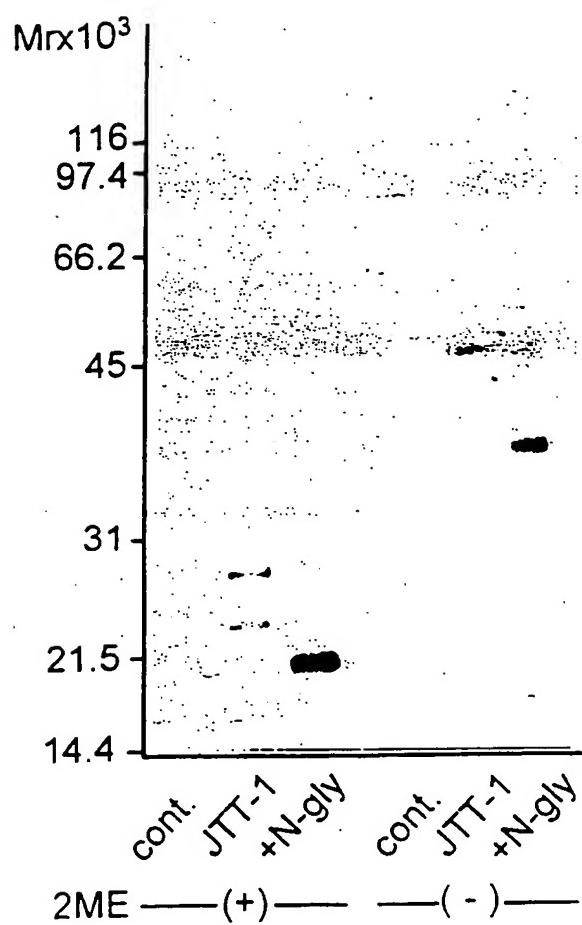


FIG. 5

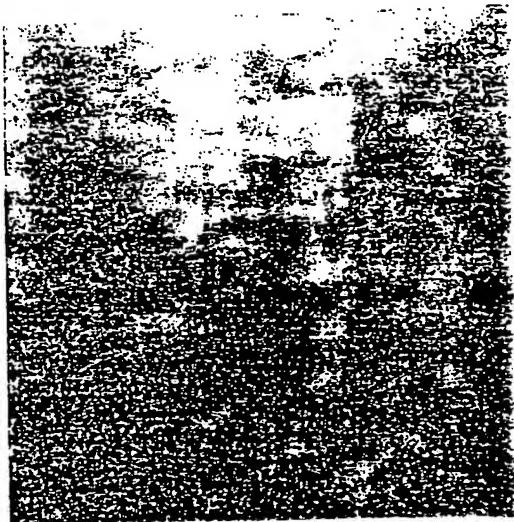


FIG. 6A

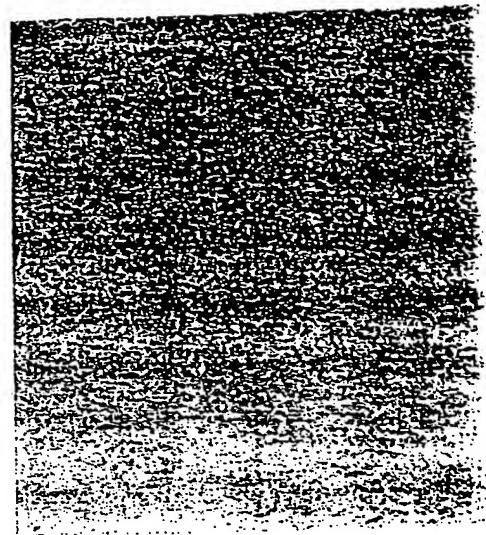


FIG. 6B

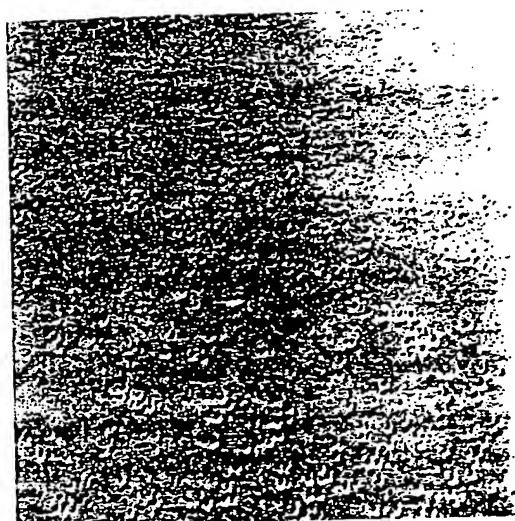


FIG. 6C

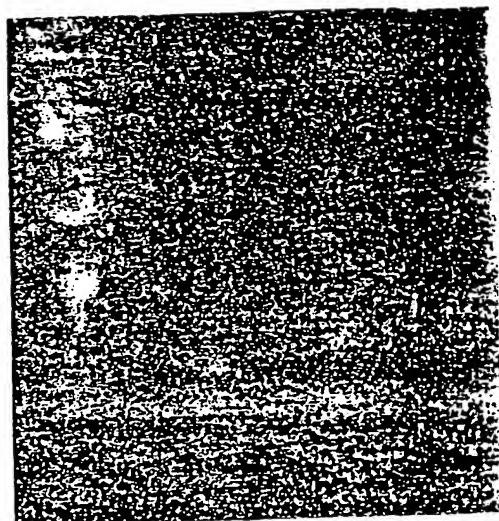


FIG. 6D

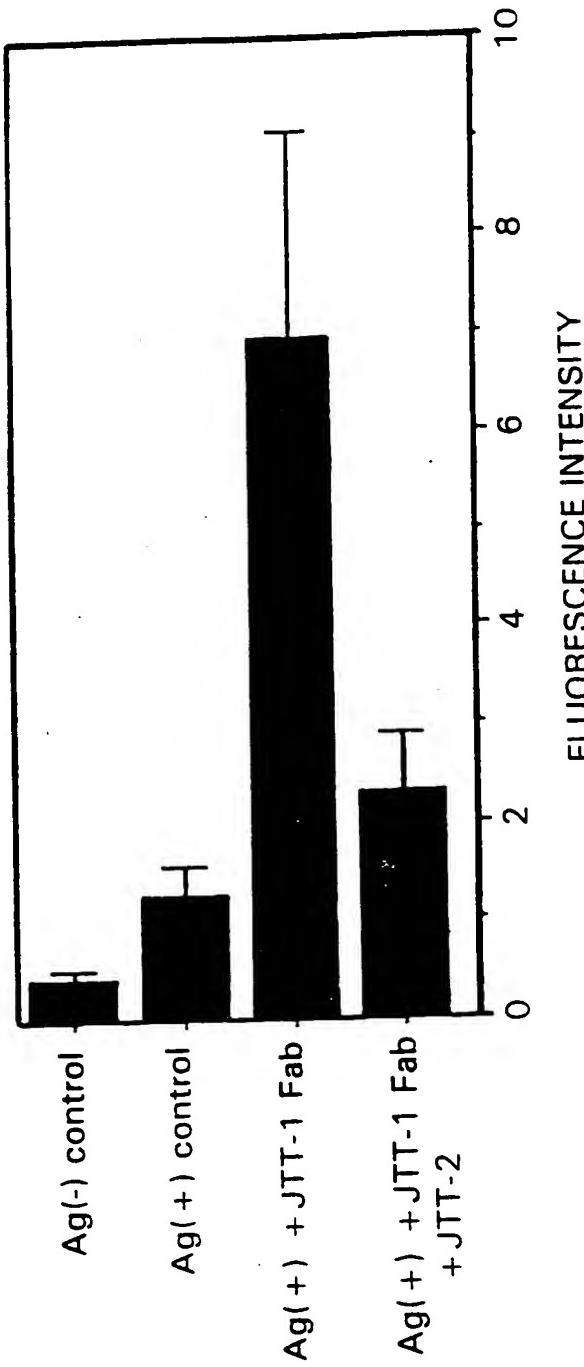


FIG. 7

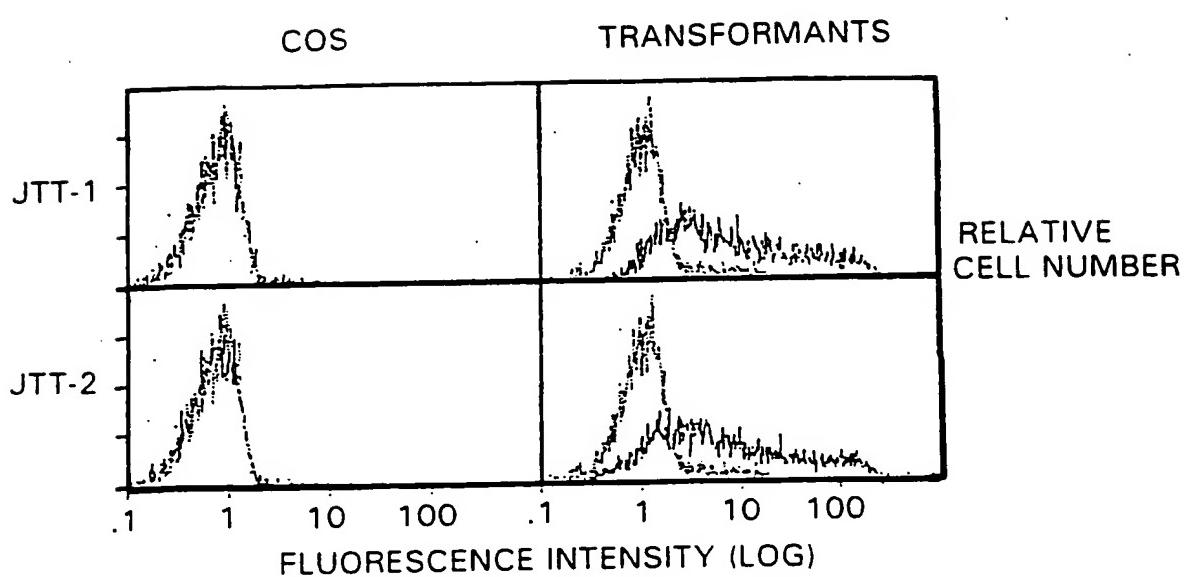


FIG. 8

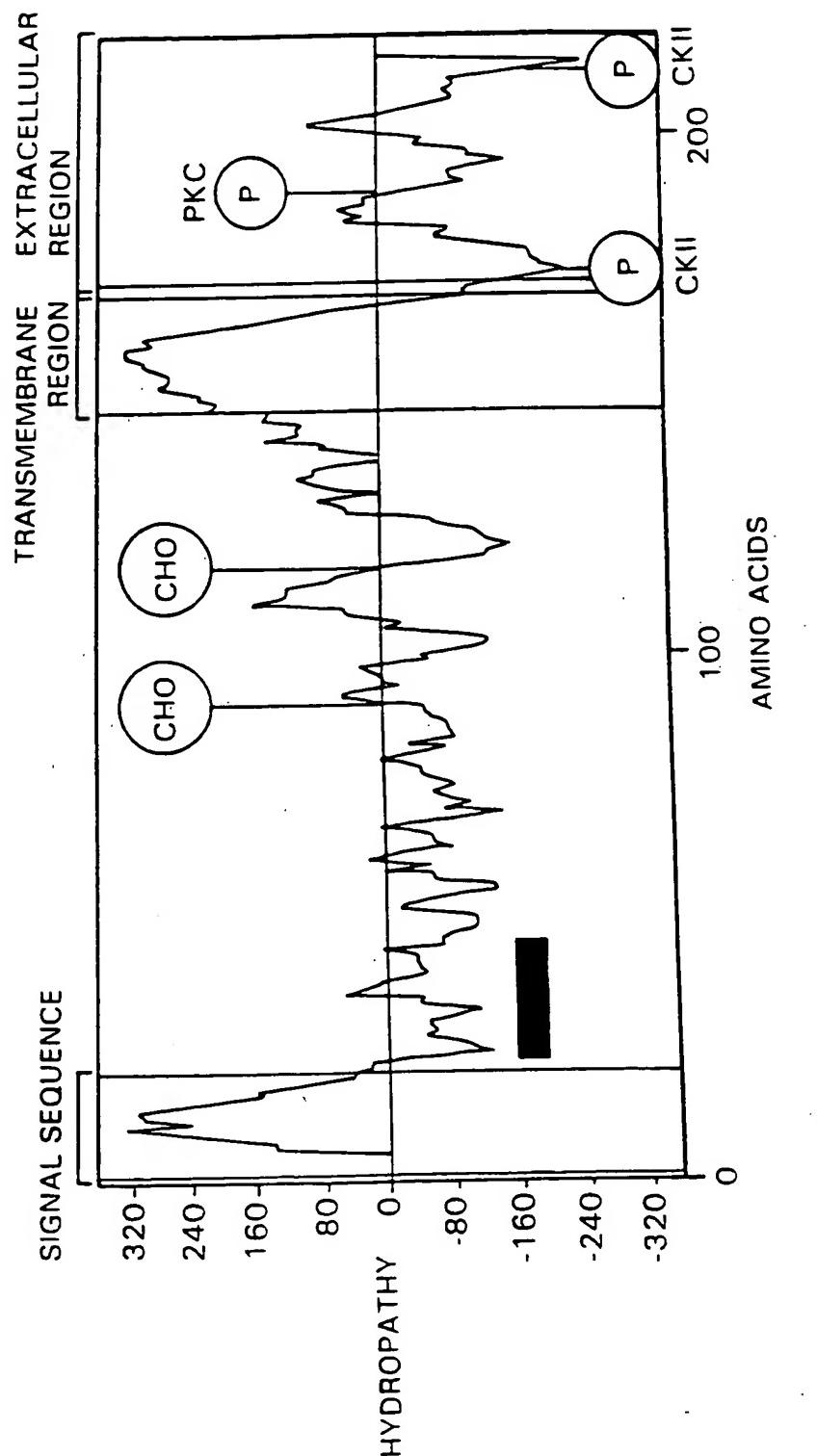


FIG. 9

human	M K S G L W Y F F L	F C L R I K V L T G E I N G S A N Y E M	F I L F H N G G V Q I L C K Y P D I V Q Q	50
rat	M K P Y F S C V F V	F C F L I K L L T G E I N D L A N H R M	F S F H D G G V Q I S C N Y P E T V Q Q	50
rat mutant	M K P Y F S C V F V	F C F L I K L L T G E I N D L A N H R M	F S F H D G G V Q I S C N Y P E T V Q Q	50
mouse	M K P Y F C H V F V	F C F L I R L L T G E I N G S A D H R M	F S F H N G G V Q I S C K Y P E T V Q Q	50
consensus	M K P Y F . . V F V	F C F L I K L L T G E . N . A N H R M	F S F H . G G V Q I S C . Y P E T V Q Q	50
human	F K M O L L K G G Q	I L C D L T K T K G S G N T V S I K S L	K F C H S Q L S N N S V S F F L Y N L D	100
rat	L K M O L L F K D R E	V L C D L T K T K G S G N T V S I K N P	M S C P Y Q L S N N S V S F F L D N A D	100
rat mutant	L K M O L L F K D R E	V L C D L T K T K G S G N T V S I K N P	M S C P Y Q L S N N S V S F F L D N A D	100
mouse	L K M R L F R E R E	V L C E L T K T K G S G N A V S I K N P	M L C L Y H L S N N S V S F F L N N P D	100
consensus	L K M O L F K . R E	V L C D L T K T K G S G N T V S I K N P M . C .	Y Q L S N N S V S F F L . N . D	100
human	H S H A N Y Y F C N	L S I F D P P P F K - V T T G C Y L H	I Y E S Q L C C Q L K F W L P I G C A A	149
rat	S S Q G S Y F L C S	L S I F D P P P F Q E K N L S G G Y L L	I Y E S Q L C C Q L K W L P V G C A A	150
rat mutant	S S Q G S Y F L C S	L S I F D P P P F Q E K N L S G G Y L L	I Y E S Q L C C Q L K W L P V G C A A	150
mouse	S S Q G S Y Y F C S	L S I F D P P P F Q E R N L S G G Y L H	I Y E S Q L C C Q L K W L P V G L P A	150
consensus	S S Q G S Y . . C S	L S I F D P P P F Q E . N L S G G Y L .	I Y E S Q L C C Q L K W L P V G C A A	150
human	F V V V C I L G C I	L I C W L T K K K Y	S S S V H D P N G E Y M F M R A V N T A	199
rat	F V V A A L L F G C I	F I V W F A K K Y	R S S V H D P N S E Y M F M A A V N T N	200
rat mutant	F V V A A L L F G C I	F I V W F A K K Y	R S S V H D P N S E Y M F M A A V N T N	200
mouse	F V V V V L L F G C I	L I I W F S K K K Y	C S S V H D P N S E Y M F M A A V N T N	200
consensus	F V . . I L F G C I	. I . W F . K K K Y	S S V H D P N S E Y M F M A A V N T N	200
human	- - - - -	- - - - -	- - - - -	199
rat	- - - - -	- - - - -	- - - - -	200
rat mutant	L R A L G R G E H S	S C Q D R N	- - - - -	216
mouse	- - - - -	- - - - -	- - - - -	200
consensus	- - - - -	- - - - -	- - - - -	216

FIG. 10

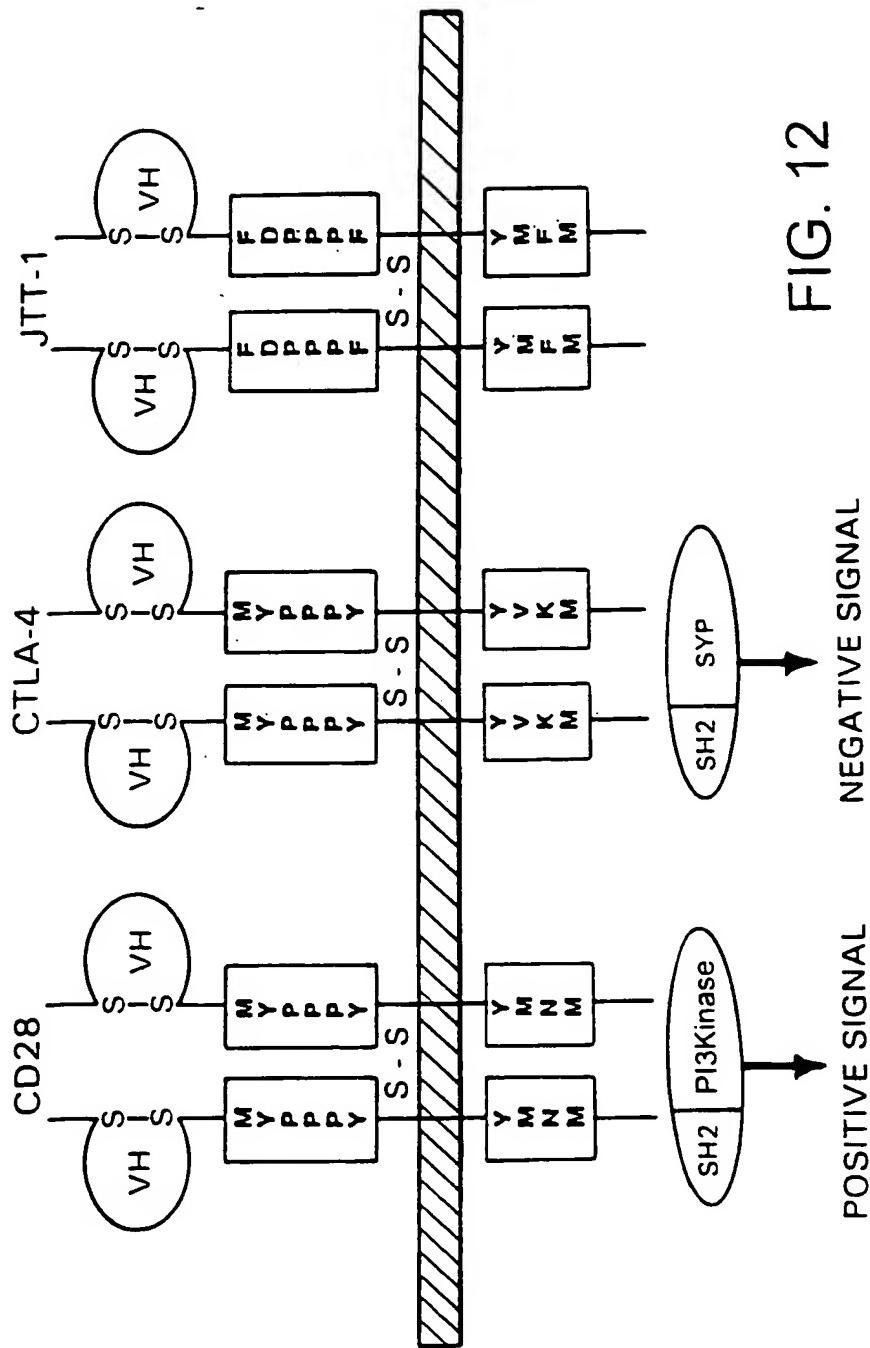
Applicant(s): Takuya Tamatani et al.

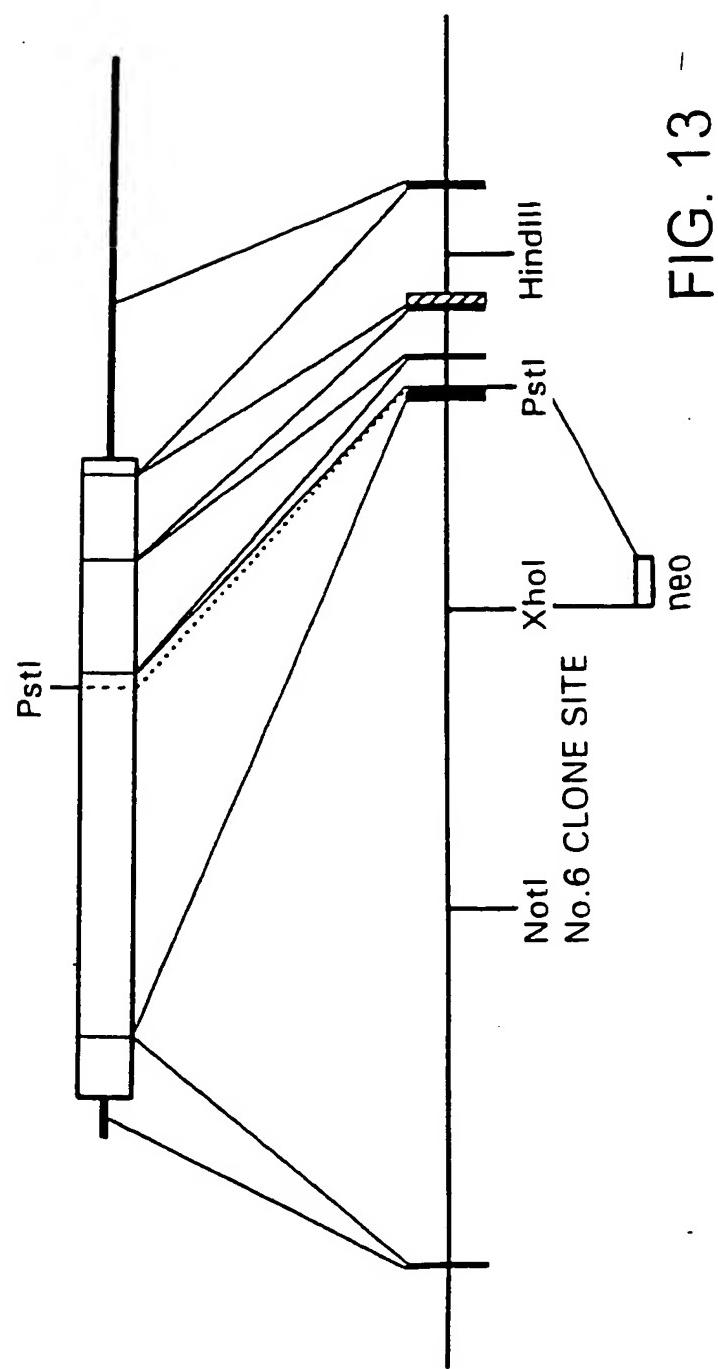
CELL SURFACE MOLECULE MEDIATING CELL ADHESION
AND SIGNAL TRANSMISSION

JTT1	M	--	-	-	-	K S G L	--	-	-	Y F F L F	C L R	I K V Y T G E I N G	S A N Y E M F I F H	34	
CD28	M	--	-	-	-	R L L A	--	-	-	L N L F	- P S	I Q V T G N K I L V	K O S P M L V A Y D	33	
CTLA4	M	A C L G F Q R H K	A	O L N L A A R T W	P C T L L F F L F	I P V F C K A M H V	A O P A V V L A S S	50							
consensus	M	-	-	-	-	. L . L A	- -	-	-	L . L F	. I . V	. . . I . V	. . . A . .	50	
JTT1	N	G G V O I L	[CKY]	-	P D I	V Q Q F K	M Q L L K G G Q I L	-	-	C D L T K T	K G S G N T V S I K	78			
CD28	N	A N V - N L S C K Y	S Y N L F S R E F R	A S L H K G L D S A	V E V - C V V Y G N	Y S Q O Q L O V Y S K	81								
CTLA4	R G I A S F V C E Y	A S P G K A T E V R	V T V L R Q A D S O	V T E V C A A - - T	Y M T G N N E L T F L	98									
consensus	N G . . . C K Y	. . . P . . . C K Y	. . . P . . . E F R	. . . L L K G . D S . V . . - C	. . . T Y . . G N . V K	100								
JTT1	SL K F C H S Q O L S	N N S V S F F L Y N	E D H S H A N Y Y F	[C N L S I F D P P P P	F - - K V T U L T G G	126									
CD28	T G F N C D G K L G N E S V T F Y L Q N	L Y V N O T D I Y F	C K I E V M Y P P P P	F Y L D N E K S N G T	131										
CTLA4	D D S I C T G T S S G N O V N L T I Q G	L R A M D T G L Y I	C K V E L M Y P P P P	Y Y - L C I G N G T	147										
consensus	. C . G . L S N N S V .	F . L Q N L Y F C K . E . M Y P P P P	Y . . . N G T	150										
JTT1	Y L H I Y E S S O L C	C Q L K F	[W - L P I G G C A A F V V V C I L G C	- I L I C W L T K K	167										
CD28	I I H V K G K H L C	P S P L F P G P S K	P F W V V V G G V L A C Y S L L V T	V A F I I F W V R S	181										
CTLA4	Q I Y V I D P E P C	P D S D F	L L W I I L A V S S G L F F Y S F L L T	- A V S L S K M L K	191										
consensus	. I H V . . . L C P . . . F W . . . L . . . Y S . L . . .	- A . I K	200										
JTT1	K Y [S S S V H D P N	G E Y N F M R A V N	T A K K S R - - -	- - - L T D V T L - - -	199										
CD28	K R S - - - R L L H	S D Y M N M T P R R	P G P T R K H Y Q P	Y A P P R D F A A Y R S	220										
CTLA4	K R S - - - P L T T	G V Y V K M P P T E	P E - C E K Q F Q P Y - - -	- F I - P I N -	223										
consensus	K R S - - - L . . .	G . Y M . M . P . . .	D F . . .	D F . . .	242										

FIG. 11

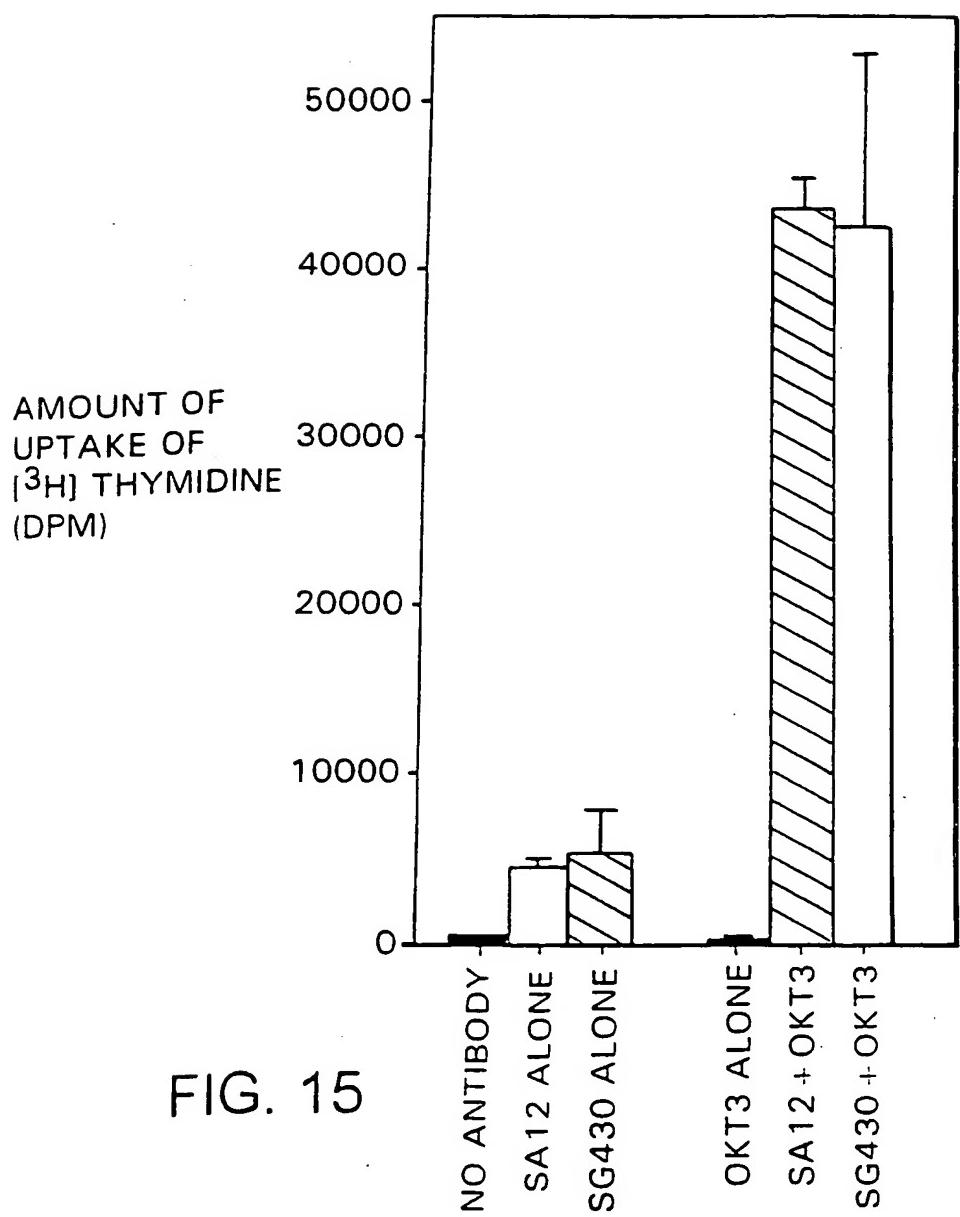
FIG. 12





				50
rat	MKPYFSCVFV	FCFLIKLLTG	ELNDLANHMR	FSFHDCGGVQI
rat mutant	MKPYFSCVFV	FCFLIKLLTG	ELNDLANHMR	SCNYPETVQQ
consensus	MKPYFSCVFV	FCFLIKLLTG	ELNDLANHMR	SCNYPETVQQ
				50
rat	LKMQLFKDRE	VLCDLTAKTKG	SGNTVSIKNP	MSCPYQLSNIN
rat mutant	LKMQLFKDRE	VLCDLTAKTKG	SGNTVSIKNP	SVSFFLDNAD
consensus	LKMQLFKDRE	VLCDLTAKTKG	SGNTVSIKNP	MSCPYQLSNIN
				50
rat	SSQGSYFLCS	LSIFDPPPFO	EKNLSGGYLL	IYESQLCCQL
rat mutant	SSQGSYFLCS	LSIFDPPPFO	EKNLSGGYLL	KLMLPVGCCAA
consensus	SSQGSYFLCS	LSIFDPPPFO	EKNLSGGYLL	SVSFFLDNAD
				100
rat	FVAALLFGCI	FIVWFAKKKY	RSSVHDPNSE	YMFMAAVNTN
rat mutant	FVAALLFGCI	FIVWFAKKKY	RSSVHDPNSE	YMFMAAVNTN
consensus	FVAALLFGCI	FIVWFAKKKY	RSSVHDPNSE	YMFMAAVNTN
				100
rat				100
rat mutant				100
consensus				100
				100
rat				150
rat mutant				150
consensus				150
				150
rat	FVAALLFGCI	FIVWFAKKKY	RSSVHDPNSE	YMFMAAVNTN
rat mutant	FVAALLFGCI	FIVWFAKKKY	RSSVHDPNSE	YMFMAAVNTN
consensus	FVAALLFGCI	FIVWFAKKKY	RSSVHDPNSE	YMFMAAVNTN
				200
rat				200
rat mutant				200
consensus				200
				216
rat				216
rat mutant				216
consensus				216

FIG. 14



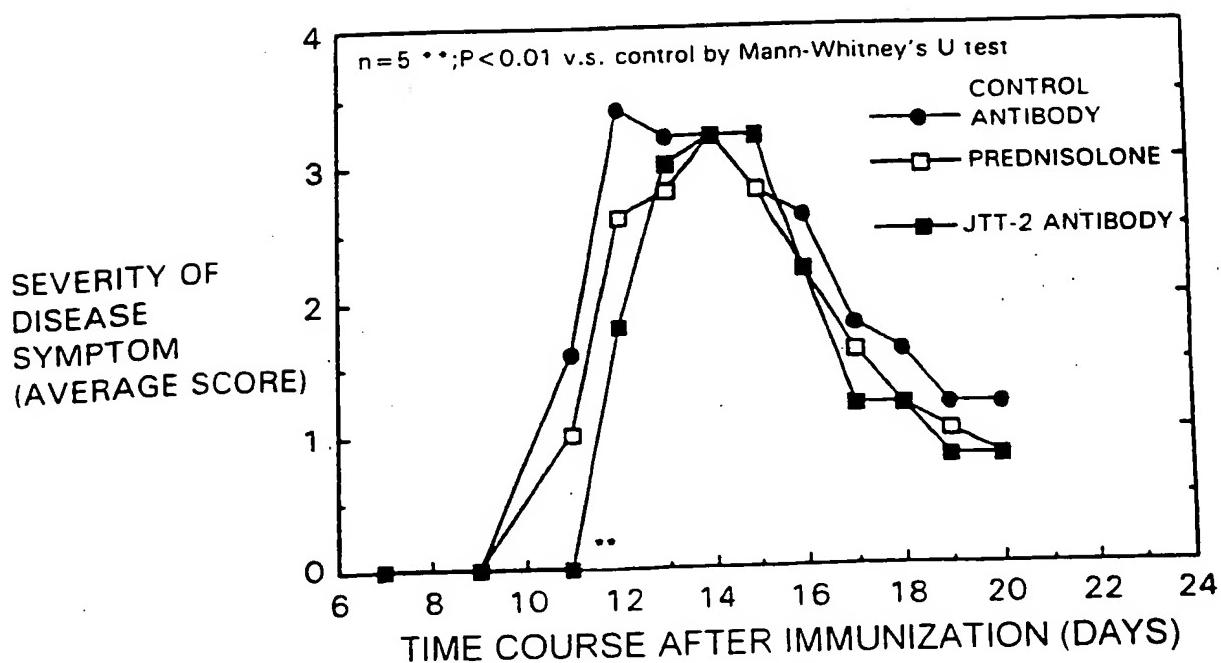


FIG. 16

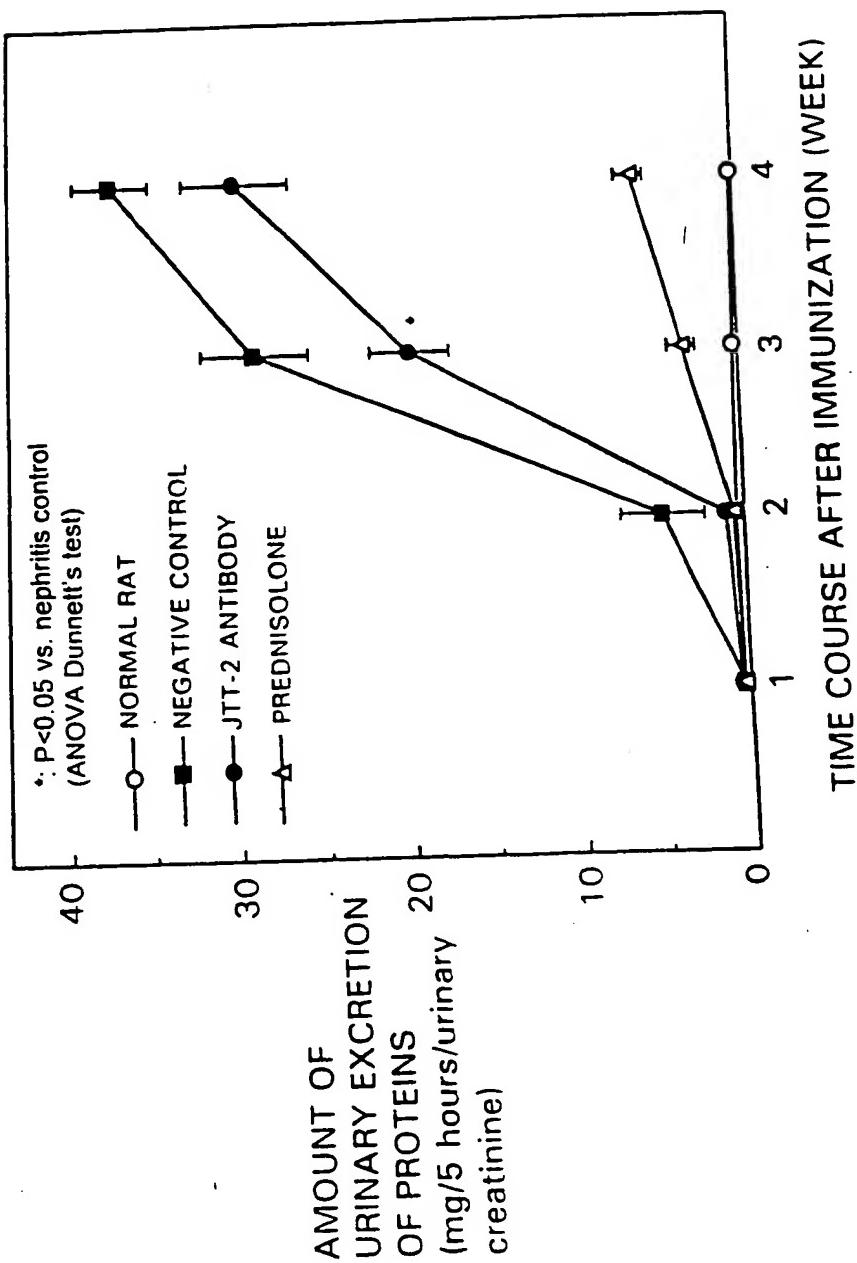


FIG. 17

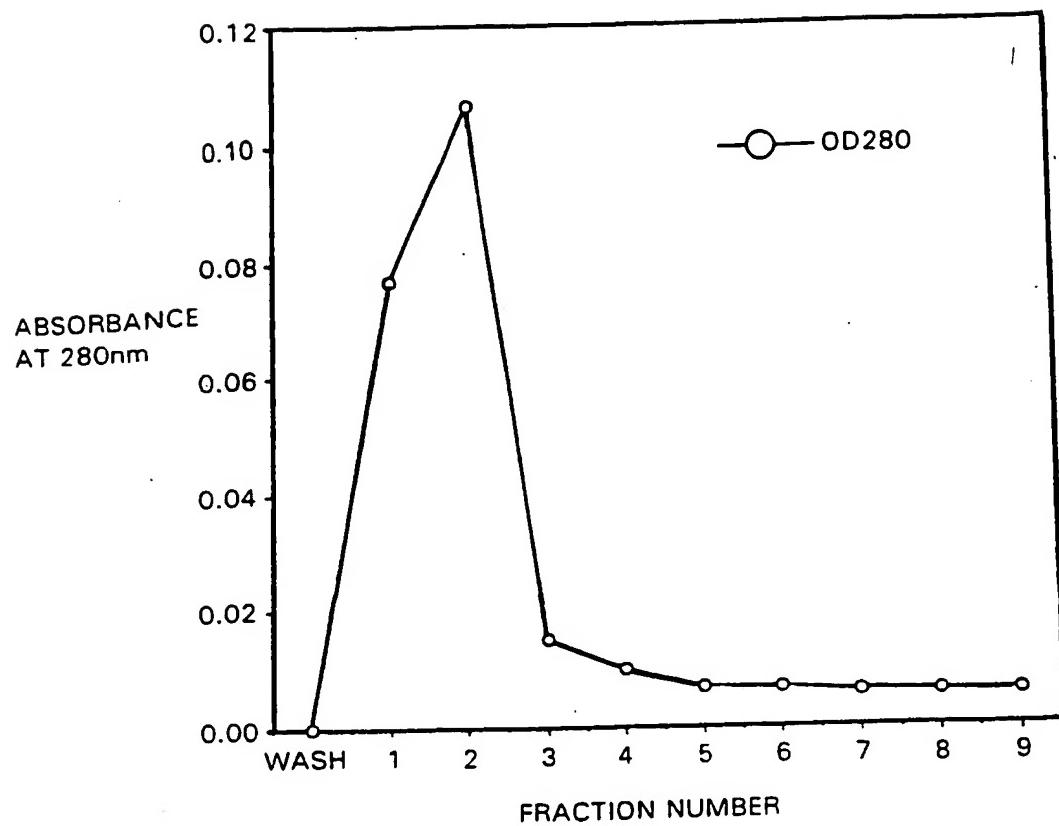


FIG. 18

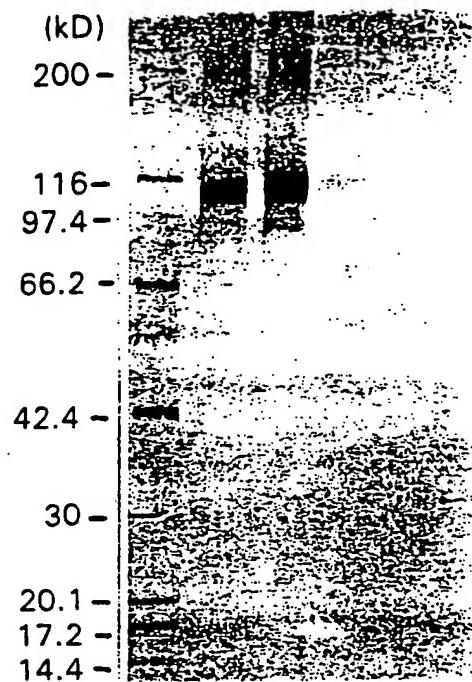


FIG. 19

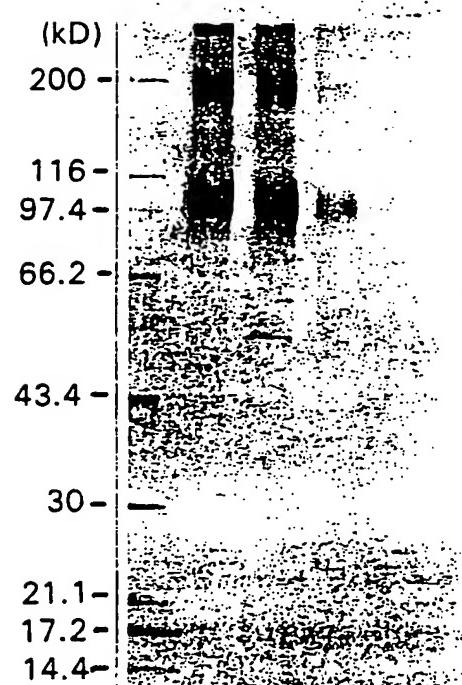


FIG. 21

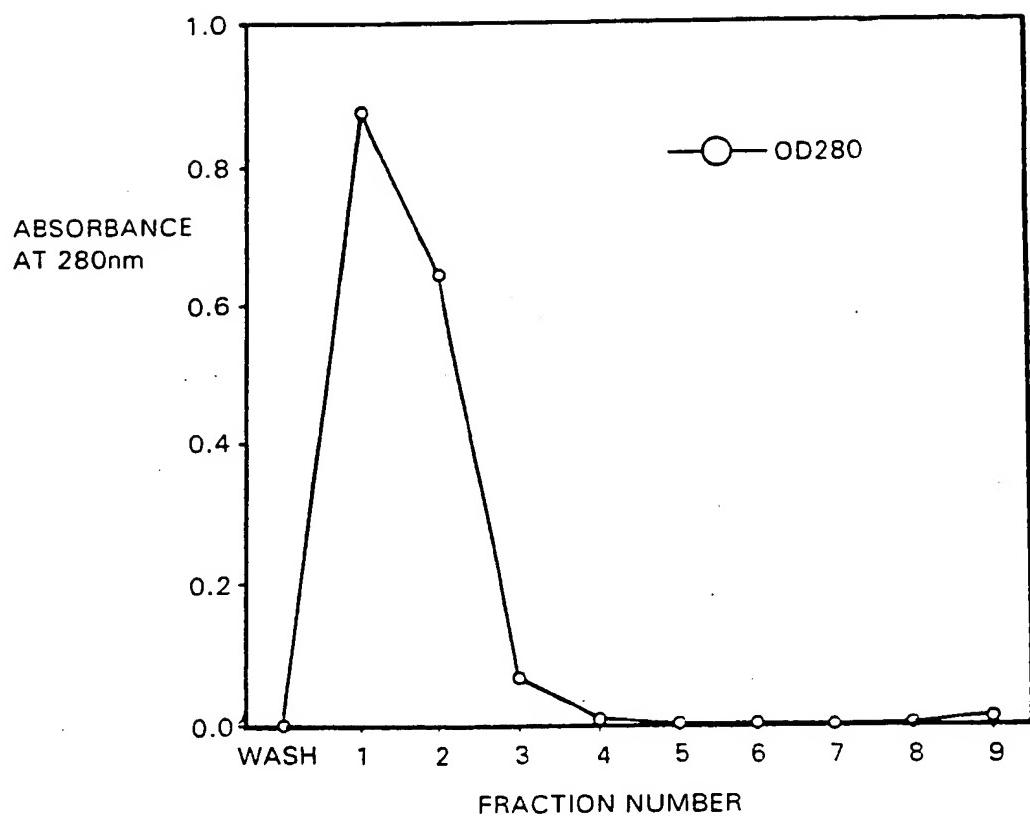


FIG. 20

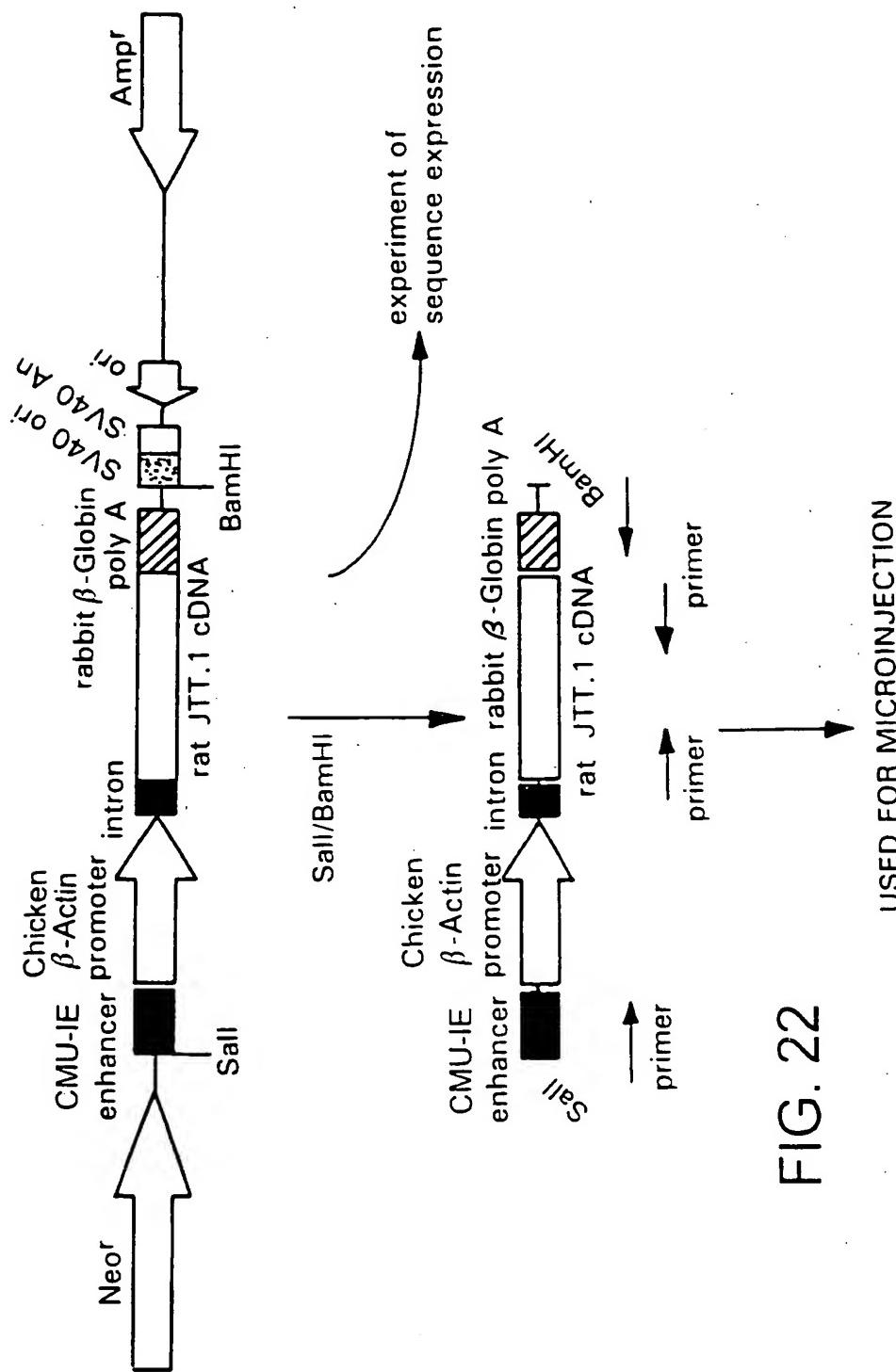


FIG. 22